The design approach focused on the distinct needs of cancer patients and their treatment schedules, which typically occur five days a week for five to eight consecutive weeks. To alleviate the stress and anxiety that comes with treatment, we harnessed natural light, views to nature, and soothing interior colors to create a calming and nature-oriented experience that feels more like a spa than a diagnostic and treatment center. The three linear accelerator treatment rooms are located at the heart of the building, enclosed within three-foot-thick concrete walls. A glass wall stretches across the footwall of each room, opening onto a Zen garden and a plush vertical garden.
Kaiser Permanente Kraemer Radiation Oncology Center
Anaheim, California

“A unique, state-of-art building for cancer patients that was healing, stress-relieving, and full of natural light.”

STRATEGIES

Double glazed facade
The double glazed exterior walls fan out to embrace a landscape of wild grasses and drought resistant plantings.

Connection with Nature
Inner panes of glass of the double skin facade are fritted with ghostly images of a forest.

Framing the view
Where walls flare out, clear glazing frames vistas.

Natural Materials
Walls clad in cherry wood and casual seating set the tone in a corridor outside offices.

View to nature
Each treatment room looks into a narrow zen garden with a living wall and features indirect lighting.
Other spaces including the reception area to contribute to creating a soothing environment.
Plush vertical garden wall is also included at LINAC rooms to add calming effect to otherwise stressful procedures.

Views to Nature
Nature materials

Fritted glass
Entrance
Linear accelerator room

http://www.contractdesign.com/projects/healthcare/Kaiser-Permanente-Kraemer-Radiation-Oncology-Center-36900.htm#11

View to nature
Fritted glass

Liner accelerator room

Framing the view
Where walls flare out, clear glazing frames vistas.

Fritted glass

http://www.contractdesign.com/projects/healthcare/Kaiser-Permanente-Kraemer-Radiation-Oncology-Center-36900.htm#11

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FLOOR PLAN
1 Zen Garden
2 Linear Accelerator
3 Control Room
4 Work Area
5 CT Control Room
6 Exam Room
7 Treatment Planning
8 Patient Holding
9 Sub-Holding
10 Electrical Room
11 Staff Lounge
12 Waiting Area
13 Lobby
14 Conference
15 Office
16 Reception

TRAVEL DISTANCE ANALYSIS:
+ From entrance to registration: 73 ft
+ From registration to medical waiting: 21 ft
+ From medical waiting to exam room: 68 ft - 213 ft
+ From exam room to patient holding: 50 ft
+ From patient holding to operating room: 74 - 86 ft
+ From operating room to exit: 56 - 120 ft

KEY:
- Linear Accelerator Vaults (including vertical garden)
- Exam room
- CT scanner room
- Patient holding
- Staff support/work area
- Reception/waiting
- Administration

DEPARTMENTAL SQUARE FOOT TAKE-OFFS
Net Gross
Registration/waiting 1026 SF 1393 SF
Scan area 5234 SF 6539 SF
Exam and support area 4502 SF 5247 SF
Staff areas 852 SF 1082 SF
Mechanical + Electrical 730 SF 829 SF

KEY SPACES:
▶ Linear Accelerator Vaults (861-887 sf) including vertical garden (112-129 sf)
▶ Control Rooms (144 sf)
▶ Exam Rooms (112-114 sf)
▶ Offices (92 sf)
▶ CT Scanner Room (402 sf)
▶ CT Control Room (146 sf)

PROJECT INFORMATION:
Project: Kaiser Permanente, Kraemer Radiation Oncology Center
Project location: Anaheim, California
Owner/Client: Kaiser Permanente
Architect: Yazdani Studio of Cannon Design
Interior designer: CannonDesign
Landscape architect: AHBE
Structural engineer: John A. Marin & Associates
Civil engineer: TGR
MP engineer: M+NLB/Mazzetti
Electrical engineer: DPB Engineering
General contractor: Turner
Security consultant: Guidepost Solutions
Construction cost: $13,000,000
Building area GSF: 16,000 sf
Construction start date: June 2014
Substantial completion date: June 2015
Description: The design for this LEED Gold

There is a clear manifestation from concept to exterior that balances visual experience and privacy.
Given the issues with linear accelerators, the idea of this building as a standalone object makes sense.
The jury was impressed with the design team’s approach of introducing a garden into a concrete bunker with access to natural light.
The use of patterned glass to create translucency, offer privacy, with selective breaks in the pattern framing views to the landscape was successful.

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KEY:
- Linear Accelerator Vaults (861-887 sf)
- Control Rooms (144 sf)
- Exam Rooms (112-114 sf)
- Offices (92 sf)
- CT Scanner Room (402 sf)
- CT Control Room (146 sf)

AIA/AAH DESIGN AWARD WINNER
Category: Built, less than $25 million in construction cost

JURY COMMENT:
There is a clear manifestation from concept to exterior that balances visual experience and privacy. Given the issues with linear accelerators, this idea of this building as a standalone object makes sense. The jury was impressed with the design team’s approach of introducing a garden into a concrete bunker with access to natural light. The use of patterned glass to create translucency, offer privacy, with selective breaks in the pattern framing views to the landscape was successful.

DISCRIPTION:
Radiation therapy building focuses on providing a highly supportive environment which provides treatment and care of cancer patients. The challenge was to create an environment that reduces stress for member patients and families, provides the best current technological infrastructure, and is an excellent place for physicians and staff to perform their work. The design provides a calming, nature oriented experience through the use of natural light, organic forms, outdoor views to nature, soothing interior colors, and a “Zen Garden” which contains a vibrant living wall garden visible from the treatment areas.

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